MRPL32 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPL32, Polyclonal Antibody
Full Product Name	MRPL32 Conjugated Antibody
Product Gene Name	anti-MRPL32 antibody
Product Synonym Names	39S ribosomal protein L32; mitochondrial [Precursor]; L32mt; MRP-L32; HSPC283
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total MRPL32 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	21,405 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (42971939..42977456). Location: 7p14
OMIM	611839
3D Structure	ModBase 3D Structure for Q9BYC8
Immunogen	Synthesized peptide derived from internal of human MRPL32.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-MRPL32 antibody	Most Applications
Application Notes for anti-MRPL32 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-MRPL32 antibody	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein that belongs to the L32 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome Xp.

Other Notes	Small volumes of anti-MRPL32 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MRPL32 purchase	MBS9445132 is an antibody targeting MRPL32. Also known as MRPL32 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL32. It may not necessarily be applicable to this product.

NCBI GI #	13994261
NCBI GeneID	64983
NCBI Accession #	NP_114109.1
UniProt Primary Accession #	Q9BYC8
UniProt Secondary Accession #	Q96Q68; Q9P098
UniProt Related Accession #	Q9BYC8
GenBank Nucleotide #	NM_031903.2
NCBI Official Full Name	39S ribosomal protein L32, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L32
NCBI Official Symbol	MRPL32
NCBI Official Synonym Symbols	L32mt; HSPC283; MRP-L32; bMRP-59b
UniProt Protein Name	39S ribosomal protein L32, mitochondrial
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL32
UniProt Synonym Gene Names	L32mt; MRP-L32
UniProt Entry Name	RM32_HUMAN
NCBI Protein Information	39S ribosomal protein L32, mitochondrial
UniProt Comments for MRPL32	MRPL32: a mitochondrial ribosomal protein encoded by a nuclear gene that helps in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein that belongs to the L32 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome Xp. [provided by RefSeq, Jul 2008] Chromosomal Location of Human Ortholog: 7p14 Cellular Component: mitochondrial inner membrane; mitochondrial ribosome; large ribosomal subunit Molecular Function: structural constituent of ribosome Biological Process: translation; mitochondrial translation; organelle organization and biogenesis
Research Articles on MRPL32	**1.** Observational study of gene-disease association. (HuGE Navigator)

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